

What is claimed is:

1. A test piece for analyzing an organism-originated substance labeled with a first labeling substance, the test piece comprising:

5 a carrier on which a plurality of known specific binding substances differing from one another are disposed at a plurality of predetermined positions;

wherein said specific binding substances are labeled with a second labeling substance.

10 2. The test piece as set forth in claim 1, wherein said first labeling substance and said second labeling substance differ from each other.

15 3. The test piece as set forth in claim 1, wherein said specific binding substances are complementary deoxyribonucleic acid (cDNA).

4. The test piece as set forth in claim 2, wherein said specific binding substances are cDNA.

5. The test piece as set forth in claim 1, wherein said second labeling substance is a fluorescent dye.

20 6. The test piece as set forth in claim 2, wherein said second labeling substance is a fluorescent dye.

7. The test piece as set forth in claim 3, wherein said first labeling substance is a fluorescent dye.

25 8. The test piece as set forth in claim 4, wherein said second labeling substance is a fluorescent dye.

9. The test piece as set forth in claim 1, wherein

said second labeling substance is a radioactive isotope.

10. The test piece as set forth in claim 2, wherein said second labeling substance is a radioactive isotope.

11. The test piece as set forth in claim 3, wherein said second labeling substance is a radioactive isotope.

12. The test piece as set forth in claim 4, wherein said second labeling substance is a radioactive isotope.

13. A quantitative method comprising the steps of:
detecting a level of a first labeling signal emitted by a first labeling substance, which labels a plurality of known different specific binding substances respectively disposed at a plurality of predetermined positions on a carrier of a test piece, for each of said plurality of predetermined positions;

binding an organism-originated substance, labeled with a second labeling substance differing from said first labeling substance, to said specific binding substances and detecting a level of a second labeling signal emitted from said second labeling substance for each of said plurality of predetermined positions; and

measuring a quantity of said organism-originated substance bound to said specific binding substance, based on the detected level of said first labeling signal and the detected level of said second labeling signal.

14. The quantitative method as set forth in claim 13, wherein said specific binding substances are cDNA.

15. The quantitative method as set forth in claim

13, wherein said measurement is further made based on a characteristic value related to cDNA.

16. The quantitative method as set forth in claim 14, wherein said measurement is further made based on a characteristic value related to cDNA.

17. The quantitative method as set forth in claim 13, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

18. The quantitative method as set forth in claim 14, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

19. The quantitative method as set forth in claim 15, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

20. The quantitative method as set forth in claim 16, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

21. The quantitative method as set forth in claim 13, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

22. The quantitative method as set forth in claim 14, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

23. The quantitative method as set forth in claim 15, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

24. The quantitative method as set forth in claim 16, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

25. A quantitative apparatus comprising:

5 first detection means for detecting a level of a first labeling signal emitted by a first labeling substance, which labels a plurality of known different specific binding substances respectively disposed at a plurality of predetermined positions on a carrier of a test piece, for each
10 of said plurality of predetermined positions;

second detection means for detecting a level of a second labeling signal emitted by a second labeling substance, which differs from said first labeling substance and labels an organism-originated substance bound to said specific binding substance, for each of said plurality of predetermined
15 positions; and

analyzing means for measuring a quantity of said organism-originated substance bound to said specific binding substance, based on the detected level of said first labeling signal and the detected level of said second labeling signal.
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26. The quantitative apparatus as set forth in claim 25, wherein said specific binding substances are cDNA.

27. The quantitative apparatus as set forth in claim 25, wherein said analyzing means further performs said
25 measurement, based on a characteristic value related to cDNA.

28. The quantitative apparatus as set forth in claim

26, wherein said analyzing means further performs said measurement, based on a characteristic value related to cDNA.

29. The quantitative apparatus as set forth in claim 25, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

30. The quantitative apparatus as set forth in claim 26, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

31. The quantitative apparatus as set forth in claim 27, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

32. The quantitative apparatus as set forth in claim 28, wherein said first labeling substance for said specific binding substances is a fluorescent dye.

33. The quantitative apparatus as set forth in claim 25, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

34. The quantitative apparatus as set forth in claim 26, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

35. The quantitative apparatus as set forth in claim 27, wherein said first labeling substance for said specific binding substances is a radioactive isotope.

36. The quantitative apparatus as set forth in claim 28, wherein said first labeling substance for said specific binding substances is a radioactive isotope.